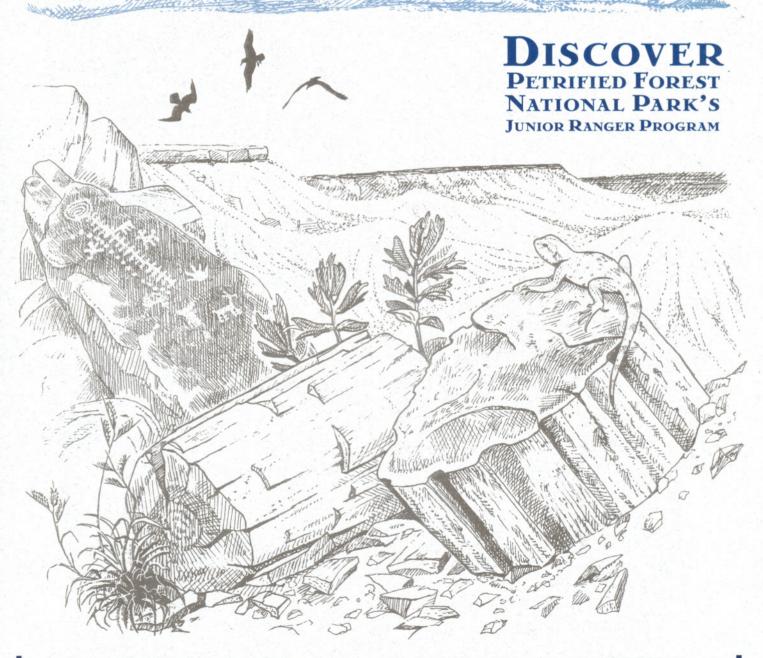
MOUNG-EXPIONER



The Junior Ranger Program is made possible through the support of the Petrified Forest Museum Association (PFMA). PFMA is a non-profit, private organization dedicated to supporting Petrified Forest National Park and the National Park Service.

YOU CAN BECOME A JUNIOR RANGER

ould you like to be a Petrified Forest National Park Jr. Ranger? To earn your badge complete three activities in your age group. When you are finished take this booklet to either the Rainbow Forest Museum or Painted Desert



Visitor Center. A park ranger will issue you a Junior Ranger badge. Remember — park hours change during the year. The hours are posted on signs in the park, or ask a ranger. Badges are issued until 1/2 hour before closing.

Choose three of the following activities. Check off when done. Fossil Find: A Petrified Wood Checklistpage 3 Wildlife Watchpage 5 Shapes in Nature.....page 6 Family Tiespage 12 Yesterday & Todaypage 18

Ages 7.9

Choose three of the following activities. Check off when done.

- Who Am I?.....page 4 What Doesn't Belong?....page 7
 - Every Picture tells a
 - Storypage 8 What's for Lunch?.....page 13

Illustrations on front cover, pages 6 and 7, and cottontail on page 5 by Zackery Zdinak. Printed on recycled paper 😵

AGES

Choose three of the following activities. Check off when done.

- Park Puzzlerpage 9
- Triassic Word Searchpage 14 The Petrified Wood Story:
 - What Happened First?....page 15
- A Day in the Lifepage 17

Design by Sullivan Santamaria Design. Revised 4/01.



A Petrified Wood Checklist

(Ages 6 and Under)

etrified wood is found in many colors, shapes and sizes. Walk on a trail (Giant

Logs, Long Logs, or Crystal Forest), and look for the colors, shapes, and sizes listed below. Put a check mark next to each item you see. Touch a petrified log. Can you find a Can you find a piece of petrified wood the section that is smooth? size of your hand? Yes _____ No ____ Rough? _____ Sharp? _____ Is the log cold or warm? _____ Can you find a tiny chip about the size of your fingernail? Yes _____ No ____ Can you find a petrified log that is longer than you are? Yes _____ No ____ Be sure to leave all the petrified wood Walk next to this log and count your in place so others can find it, too. steps. How many steps do you count? Is there more than one color in the _____ steps long. same log? What colors can you find? Put a check next to each color you see. Can you find a fat log? Yes _____ No ____ Black Brown Red Can you fit your arms around this log? ___ Orange ___ Gray White Yes No No Yellow Purple Color this picture to look like the petrified logs.

Nho am 1?

It's always fun to learn about wildlife. Using the clues below, see if you can solve the riddles and correctly identify the animals. You may be surprised by what you discover!

Hint! You might find us on Page 5!

Who Am 1?

- 1. I live only in North America.
- 2. I am the largest animal living in Petrified Forest National Park.
- **3.** I can run at speeds of up to 60 miles per hour.
- 4. Many people think I'm a deer, but I am not related to deer at all.

I am the

Who Am 1?

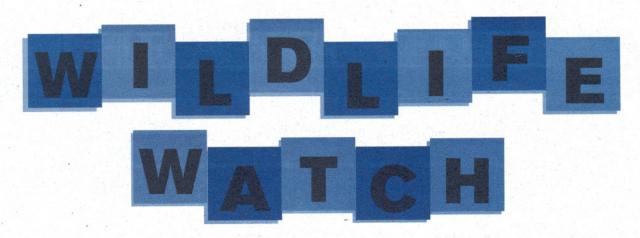
- 1. I am a member of the canine (dog) family.
- 2. I hunt small animals for my food.
- **3.** Native Americans tell many stories about my cleverness.
- **4.** At night, you can often hear me howl.

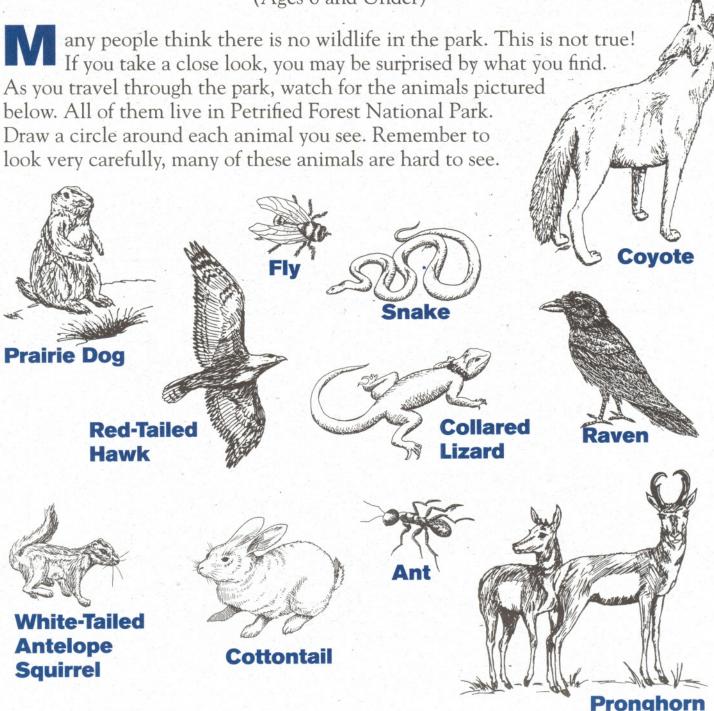
I am the



- 1. I am a glossy black color.
 - 2. I am related to the North American crow,
 - 3. I am considered very smart!
 - **4.** I eat just about anything I can find.

I am the

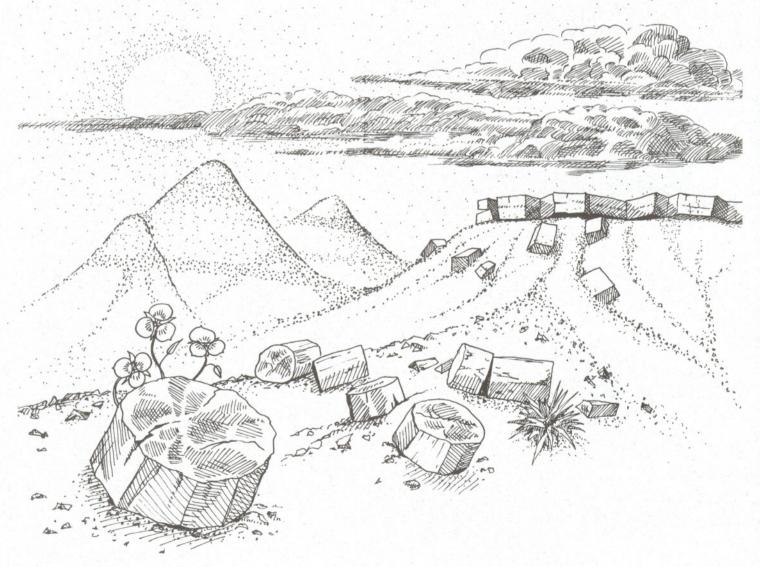






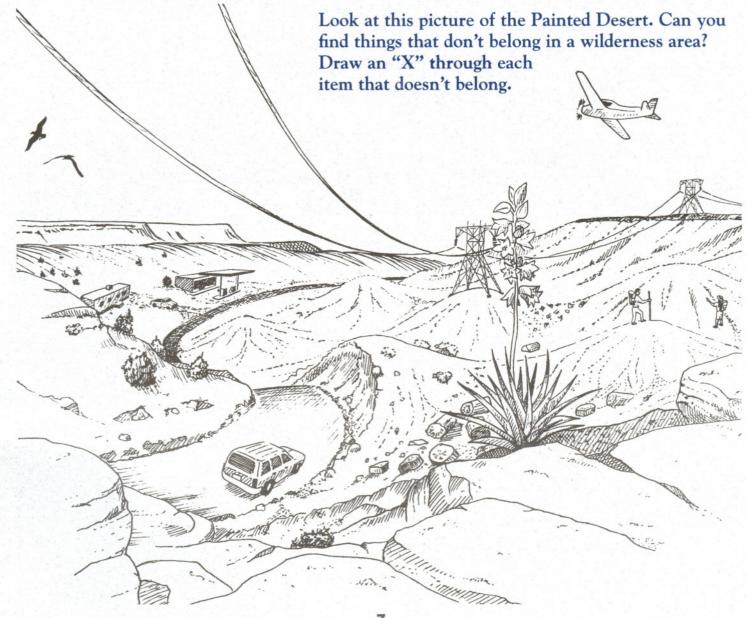
ave you ever seen a circle in the sky or a square on a mountain? There are many different shapes in nature. Look at the drawing of the Painted Desert and identify the shapes you see. Now, as you travel through the park, stop at the overlooks and try to find these same shapes in nature. Draw a line around each shape you find.

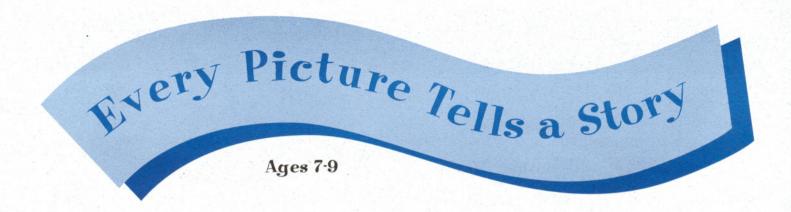
If you have crayons or markers, color each shape. Do you see any circles in the drawing? Color all the circles you find yellow. Are there any squares in the drawing? Color all the squares red. Do you see any triangles in the drawing? What color would you like to color them?



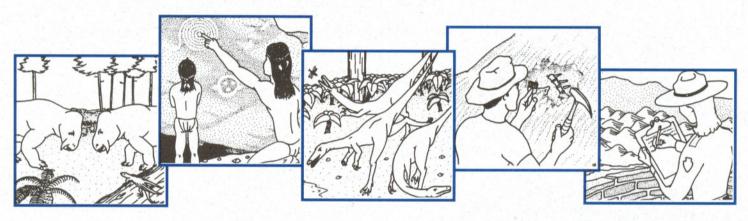


Look out into the Painted Desert. Do you see anything that is human-made such as houses, roads, fences and machines? You shouldn't find anything that is human-made because it is a Wilderness Area. Only nature should change a wilderness area, with wind, rain and snow. People can visit wilderness areas, but they must walk or ride horses. Cars, trucks, and bicycles are not allowed!





There is more to this forest than the trees! Petrified Forest National Park is full of surprises. In addition to petrified wood, you can see the remains of Triassic age plant and animal fossils, ancient Indian villages, modern day wildlife, and beautiful scenery. Look at the picture blocks and write a story using one or more of the images, or write about something you saw during your visit. Draw a picture to illustrate your story.



once upon a time		

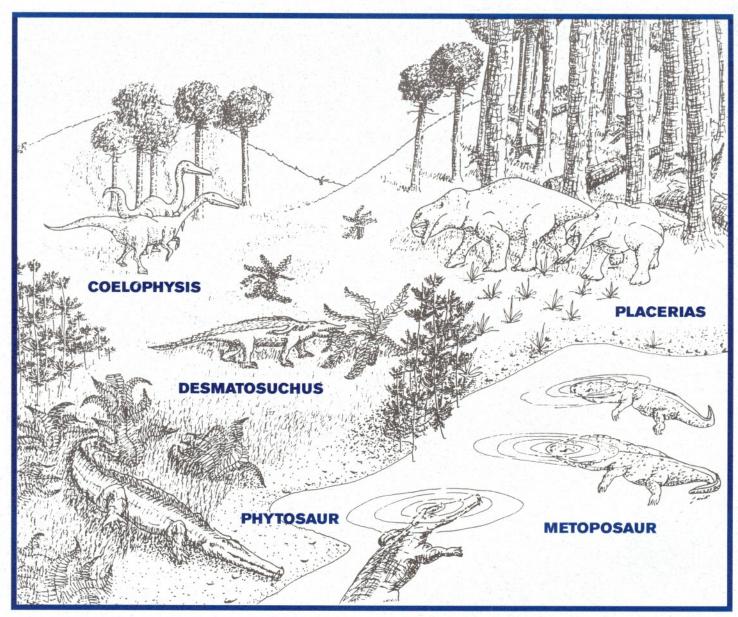
Once upon a time

Draw your picture here...

PARK PUZZLIER

(Ages 10 and Up) puzzle to ponder! Can you use what you Down (D) have learned about Petrified Forest ■ This is the largest animal living in the park National Park to complete this crossword puzzle? today. It is sometimes mistaken for a deer. 2 This Triassic carnivore looked much like an Across (A) alligator. Hint: Look on page 10. ■ This rodent lives in "towns" and can be seen **8.** We hope you will _____ standing along park roads. to Petrified Forest National Park. We're glad Forest is a great place to learn you came. about Triassic creatures and fossilized wood. **4.** We hope you spend lots of _____ in **3.** A ______ is available to answer your the park and see many new things. questions. 5. The trees that once lived in this area have 4. Long Logs Trail has the _____logs. turned to through a process **5.** Cottontails are this type of animal. called petrification. **6** These delicate plants once lived along the **6** Many types of live in the park. waterways during the Triassic Period. Please don't feed them! **7** Watch for these speedy creatures as you walk along the trails. Wared List Ranger Petrified Prairie Dog Lizards Longest Rabbits 6D Pronghorn Animals Phytosaur Remember Stone Ferns

Time



WHAT IF • • • the ancient animals that inhabited Petrified Forest National Park millions of years ago suddenly made a comeback? Write a story about one of these animals in the space below.			

TRIASSIC TIMES

uring a time called the Triassic (245-215 million years ago), northern Arizona was the home of many unusual plants and animals. Arizona was a warm, tropical area with ferns, horsetail, and cycads covering the ground. Many strange creatures lived on the swampy land and in the water of the slow rivers. These ancient reptiles and amphibians came in a variety of unusual shapes and sizes. Huge flat-headed amphibians called Metoposaurs hunted fishes in the rivers. Some plant eating reptiles like Desmatosuchus were covered with armor to protect them from meat eaters like phytosaur and Postosuchus. Only a few of the earliest dinosaurs lived during the Triassic Period.

WHAT IS A FOSSIL?

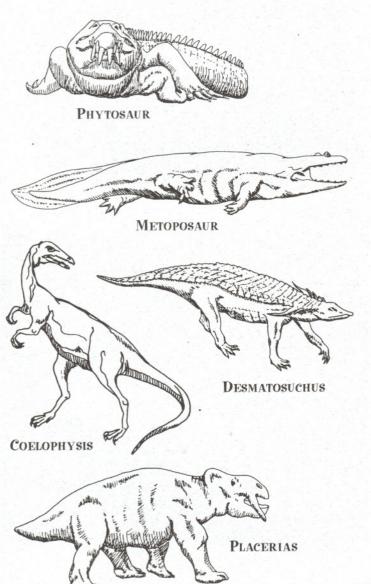
aleontologists (PAY-lee-on-tall-OH-gists) come to Petrified Forest to study fossils in the clay hills. Fossils are the remains of prehistoric life. To become a fossil, a plant or animal must be buried quickly to prevent decay, and remain undisturbed throughout the fossilization process. Most often wood and the hard parts of animals, such as bones and teeth are preserved. Soft parts, such as skin, are rarely found. It is because of these fossils that paleontologists are able to tell us what lived during these ancient times. Fossils are like a window into the past, and as a Junior Ranger you can help keep this window from being broken by not removing or disturbing anything in the park.

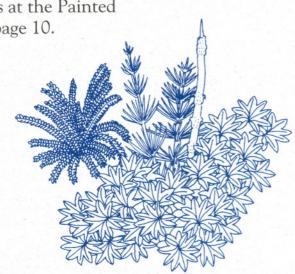
ach creature below has been separated from its cousin. Can you help bring the families together by connecting each animal with its match?





During Triassic times, just as today, some animals ate meat (insects, fish, and other animals), and some ate plants. Meat eaters must have sharp, pointed teeth to capture and eat their food. Plant eaters have flatter, smoother teeth to grind up plant fibers. Draw a line from each animal to the type of food it ate. Look for clues at the Painted Desert Visitor Center, Rainbow Forest Museum, and on page 10.





food for plant eaters



TDTWQIPLACNFGWOBTDTWQIPLACNFGWOBHJRSHNHIVIRBIAALS SILVFERIASLEFIUQSYKMTAFYTWPCALLEGIDE SIRVAEIR DIFTHOBSMACOIUCMSPRQAOBSMACOIUCMSPRQA

(Ages 10 and Up)

ill in the blanks by using terms from the word list. If you need help, ask a park ranger, or look for more information in the park visitor centers. was a plant-eating reptile who sported a pair of tusks and looked somewhat like a rhinoceros. was a plant eater. It had plates of armor along its back and bony spikes that protected its neck from meat eaters. **3.** The looked like a giant crocodile. **4.** The fossilized plants and animals of Petrified Forest National Park were alive during the Period over 200 million years ago. The petrified logs you now see in the park were at one time _____. Triassic plants and animals needed to survive, just as plants and animals do today. **7.** Paleontologists study the fossilized _____ and ______ of Triassic animals to learn what these animals ate, what they looked like, and how they lived. • Metoposaurs lived in the water and ate mostly **9.** Several of the Triassic meat-eaters hunted for horseshoe ______, and flying along the water's edge. The Triassic Period was over 200

years ago.

Trees Teeth Ferns Triassic

Desmatosuchus Bones
Million Phytosaur

Water Insects
Placerias Crabs

Fossils Fish

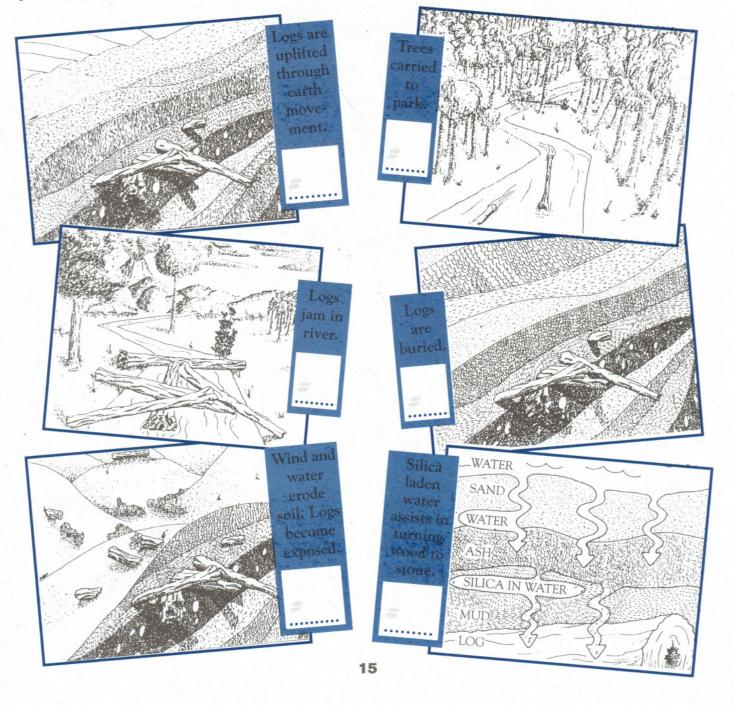
Just for fun, find these words in the puzzle below.

T D T H M I L L I O N F G W O B
H J R W Q N P L A C E R I A S L
E F I S H S H K V F A F Y T W P
C Z A U Q E Y I M T O T E E T H
O B S D Z C T I V W M S P R Q A
D E S M A T O S U C H U S T N X
O N I R B S S D Q S R Y C I H S
N F C M O Z A W E O Q A V N L K
T L J P N I U E Z C R W B M P S
S T E K E L R Y I X P V E S N W
Q H B C S T X A G B O R X N V Y

THE PERILED WOODS TOOKS TO THE WOOD STOOKS TO THE WOOD STOOKS TO THE WOOD TO THE WOOD TO THE WOOD THE WOOD TO THE WOOD T

(Ages 10 and Up)

he story blocks below tell the petrified wood story — but they aren't in the correct order! Can you number the blocks in the correct order from number 1 to number 6? Hint: See the movie, "Timeless Impressions", at the Painted Desert Visitor Center, and visit the Rainbow Forest Museum for clues.



THE ANCESTRAL PUEBLO PEOPLE

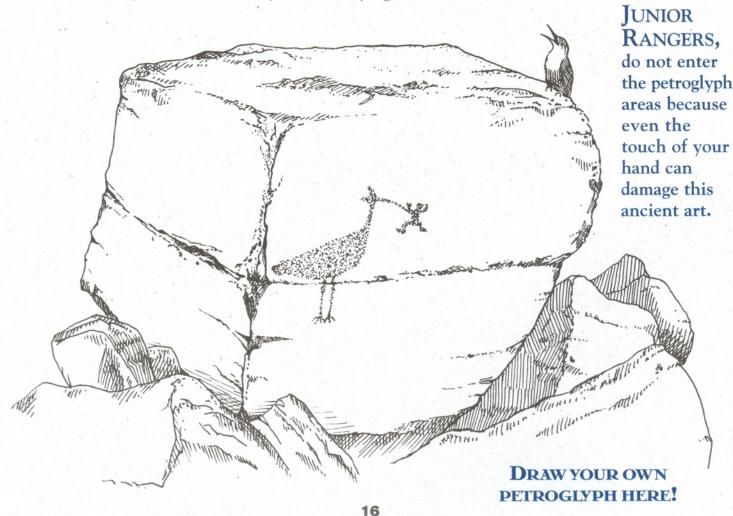
any years ago, long before Columbus found America, people lived in this area. They are known to us as the Ancestral Pueblo People. They lived in homes made of stone, called "pueblos," pronounced, "pweb-lows," a Spanish word that means "towns."

They grew crops, such as corn, beans, and squash. They hunted animals to eat and traded with other peoples throughout the area. They made beautiful pottery from clay, as well as tools, such as knives, scrapers, and arrowheads from stone they found in the area.

Some of these people lived near the Puerco River that runs through the park. You can see the remains of their home, called Puerco Pueblo, near the middle of the park. The people left

the Puerco River approximately 550 years ago.

At Puerco Pueblo and Newspaper Rock, you can see petroglyphs. Petroglyphs are designs or figures that the people chipped into the dark surfaces of rocks. Animals, people and other figures can be found. We don't know what these pictures meant to the people, but scientists, called archeologists (ark-e-ollow-jists), are trying to find out.



seeds ANDES HIRES IN 1818 ASIA

(Ages 10 and Up)

day in the life of a child living at Puerco
Pueblo was very different from a day in your
life. These children did not go to school the way
children do today.

The people of a community like Puerco Pueblo survived by cooperation with each other in all things, and children were needed to help at an early age. They helped adults grow crops like corn, squash, and beans, gather wild plants, hunt animals like rabbits and birds, prepare meals, and care for younger children. They also learned to make tools and pottery and to build with mud and stone. You might say that these children went to school all day, every day, learning from their parents and other adults by observation and participation.

Here is a story about one child's day — but some of the story is missing! Can you fill in the blanks using the word list below?

Every morning I get up and look out across the
we live in. My day begins when I go
walking with my mother to gather wild
and The sun
is still low in the sky as the people of my village
begin to move about. My younger brothers and sisters
are asleep on their blankets in the plaza. Soon the
women will begin preparing the morning meal. We
will have corn mush with the tangy flavor of wild
plants mixed in. My mother and the other women
fix the meals for everyone in the pueblo.
문가 하고 맛있다면 가게 하면 하는데

Our workers spend most of the day taking care of the crops. We grow ______, and _____ in our fields. Corn is the most important. After we harvest the ears of corn,

		Most of
our	are mad	de of stone. We make
	and	out of
petrified woo	d. We use clay to r	nake,
which we use	for cooking and st	toring food.
We will w	vork hard during th	ne spring and summer.
It is importan	nt that we grow end	ough food to store for
the winter. C	Children will help	the women gather
plants and ro	ots which will also	be stored. Some of
the men go h	nunting for wild ga	ame. They hunt
	, <u> </u>	, and
	·	
The villag	ge will have special	
to ask for rain	and healthy crops	. In the fall we harvest
our crops and	put them away for	the time when we will
		s we will have time
		We will have special
ceremonies d	lown in the	. We
will tell storie	es, and work on ou	r weaving when the
1	s cold. We stay bus	allan lang!

Pueblo

Tools

Seeds

Roots

Scrapers

Squash

Corn

Pottery

Games

Plants

Ceremonies Pronghorn

Rabbits

Kiva Metate

Beans

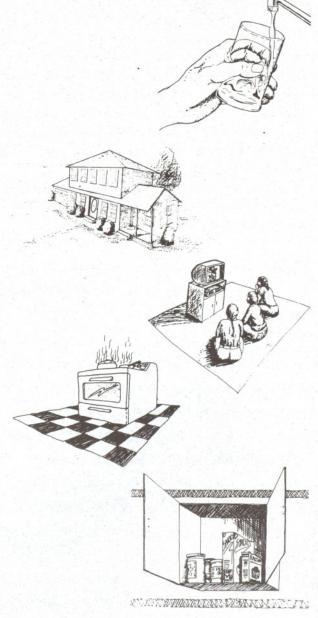
Knives

Birds

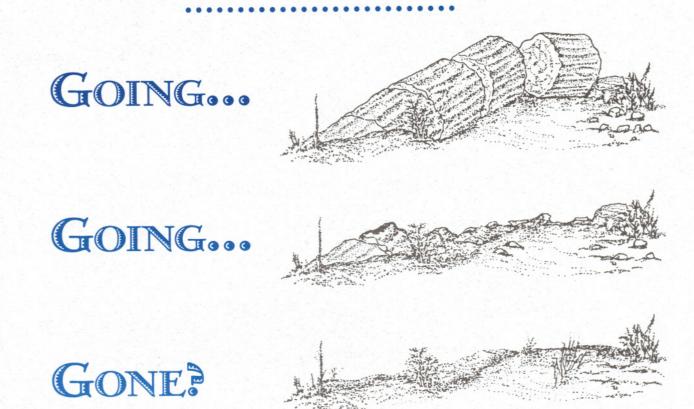


The Native American people didn't have electricity, running water, or grocery stores, but they still had to eat, drink, sleep and have a place to live. Can you draw a line to connect each item from our lives today with the item the Native people might have used?





A DISAPPEARING FOREST



etrified Forest is slowly disappearing. Not from natural causes, but from some visitors. Too many believe they can take away a small piece of petrified wood without doing harm. But each piece of petrified wood adds up. Every year 900,000 people visit Petrified Forest National Park. If each of these visitors took only one ounce of petrified wood, that would add up to 56,250 pounds, or more than 28 tons stolen each year! If that happens, soon there will be no petrified wood for visitors like you to see.

National Parks are special places, where all of nature's things — animals, birds, plants and even rocks are protected so everyone can see and enjoy them. The rangers at Petrified Forest National Park need your help to keep the petrified wood from being stolen. Will you help? We need your ideas for protecting the petrified wood. Discuss the problem with your parents and write your best suggestion in the space below.

Your Jr. Ranger certificate is on the back cover. Have your parents fill it out and the ranger will sign it.

